



Atlona HDMI to HDMI Matrix Switcher

AT-H2H-44M and AT-H2H-88M (pictured below)



User Manual

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Revision B (3/11/13): Features added

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Introduction

Multiple control options, HD resolutions, and the best audio, the Atlona HDMI® to HDMI matrix switcher is built for your home and professional needs. With the ability to pass 1080p, 1920x1200, all Lossy and Lossless audio formats (including Dolby® TrueHD and DTS-HD Master Audio™), full 3D, and ARC, the AT-H2H Family provides a full range of features that ensures the highest quality experience whether you're watching a movie, giving a presentation, and more.

Package Contents

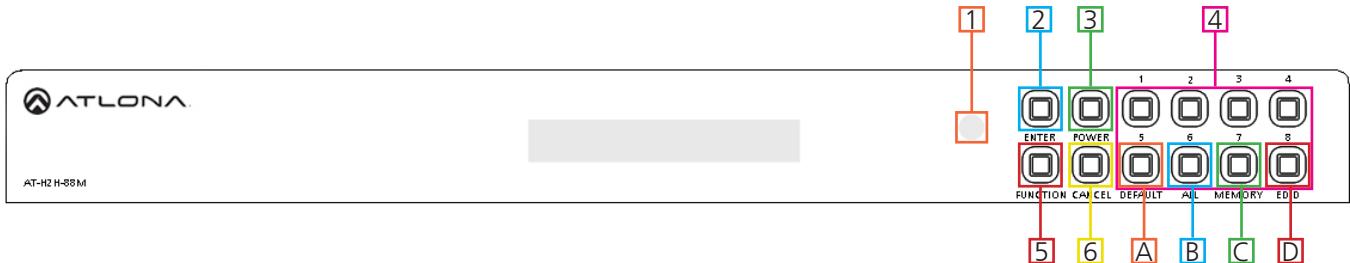
- 1 x AT-H2H Matrix Switcher
- 1 x IR Extender
- 1 x IR Remote Control
- 1 x Pair of dual purpose wall/rack mounts
- 1 x 24V/2.7A DC adaptor
- 1 x User Manual

Features

- Send any source to multiple outputs: with the H2H matrix any combination of inputs and outputs can be used
- EDID™ learning function with multiple EDID memories to ensure picture and sound.
- Programmable I/O memories: save multiple routes for faster switching to the most commonly used configurations
- Built in internal EDID mode provides 12 individual EDIDs to ensure compatibility
- ARC (Audio Return Channel) pass through
- Digital audio de-embedding allows audio to be sent to a distribution amplifier or audio receiver through the S/PDIF port
- Up to Dolby TrueHD and DTS-HD Master Audio pass through on HDMI
- Compatible with DVI/D (with DVI/D to HDMI adapter such as AT14040), allowing DVI/D video source signal to be passed to displays
- Multiple control interfaces such as RS-232, IR, TCP/IP, and the front panel
- Pass through support of all 3D formats.
- HDCP Compliant

Panel Description

Front Panel



1. IR Receiver Window - Receives the signal from the included IR remote control or a 3rd party controller.
2. Power Button - Cycles the power between On (blue backlight) or Standby (red backlight) mode.
3. Enter Button - Use to view current status for inputs and outputs or to confirm a command.
4. Number buttons - Use these buttons to select input and output paths or use with the function button to change matrix settings.
5. Function Button - Select for command options. (blue backlight when selected)
 - Default:** Mirrors all inputs to corresponding outputs. (i.e. 1 to 1, 2 to 2, 3 to 3, etc.)
 - All:** Save a single input to all the outputs with this function.
 - Memory:** Save/load the current input and output route to memory.
 - EDID:** Save/Load EDIDs to individual inputs.

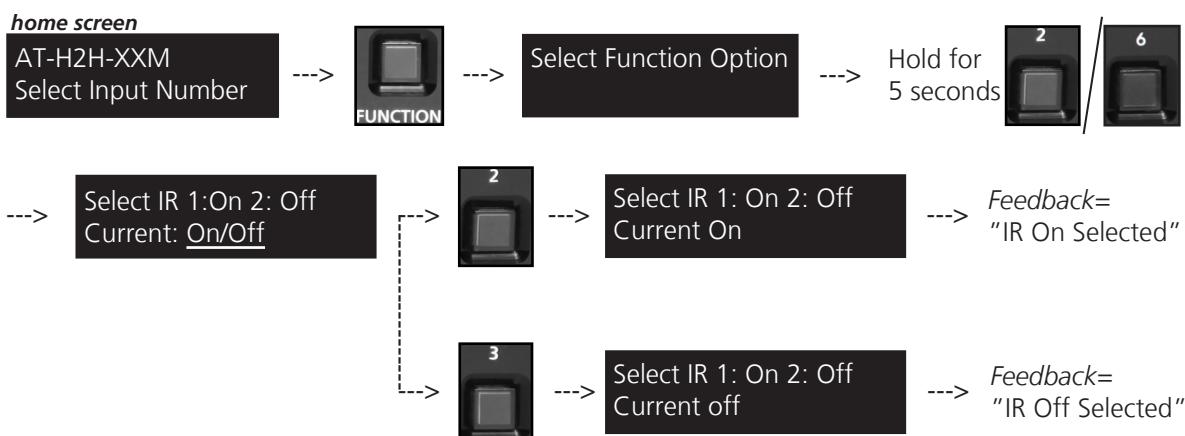
Note: Default setting for EDID is the highest common HD resolution of all connected devices. (i.e. if you have resolutions ranging 720p, 1080i, and 1080p then 720p would be the default resolution for all connected displays.)

6. Cancel Button - Within the functions menu use to go back one screen or to the home screen.

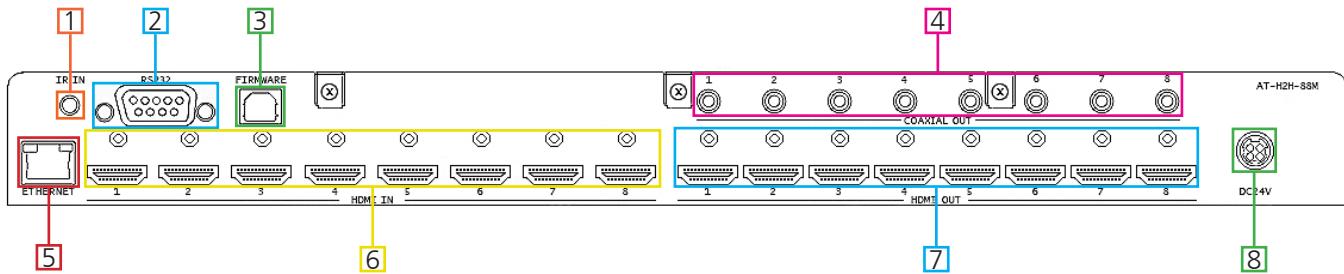
Note: You cannot power off or change functions unless you go to the home screen.

IR

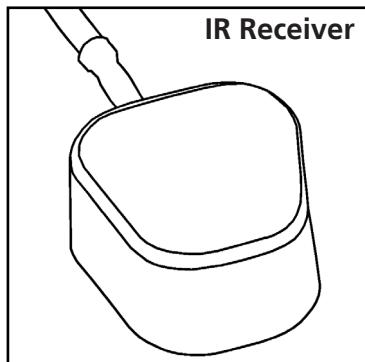
The IR receiver window can sometimes pick up stray reflected IR commands causing loss of functionality. To disable the front panel, see directions below:



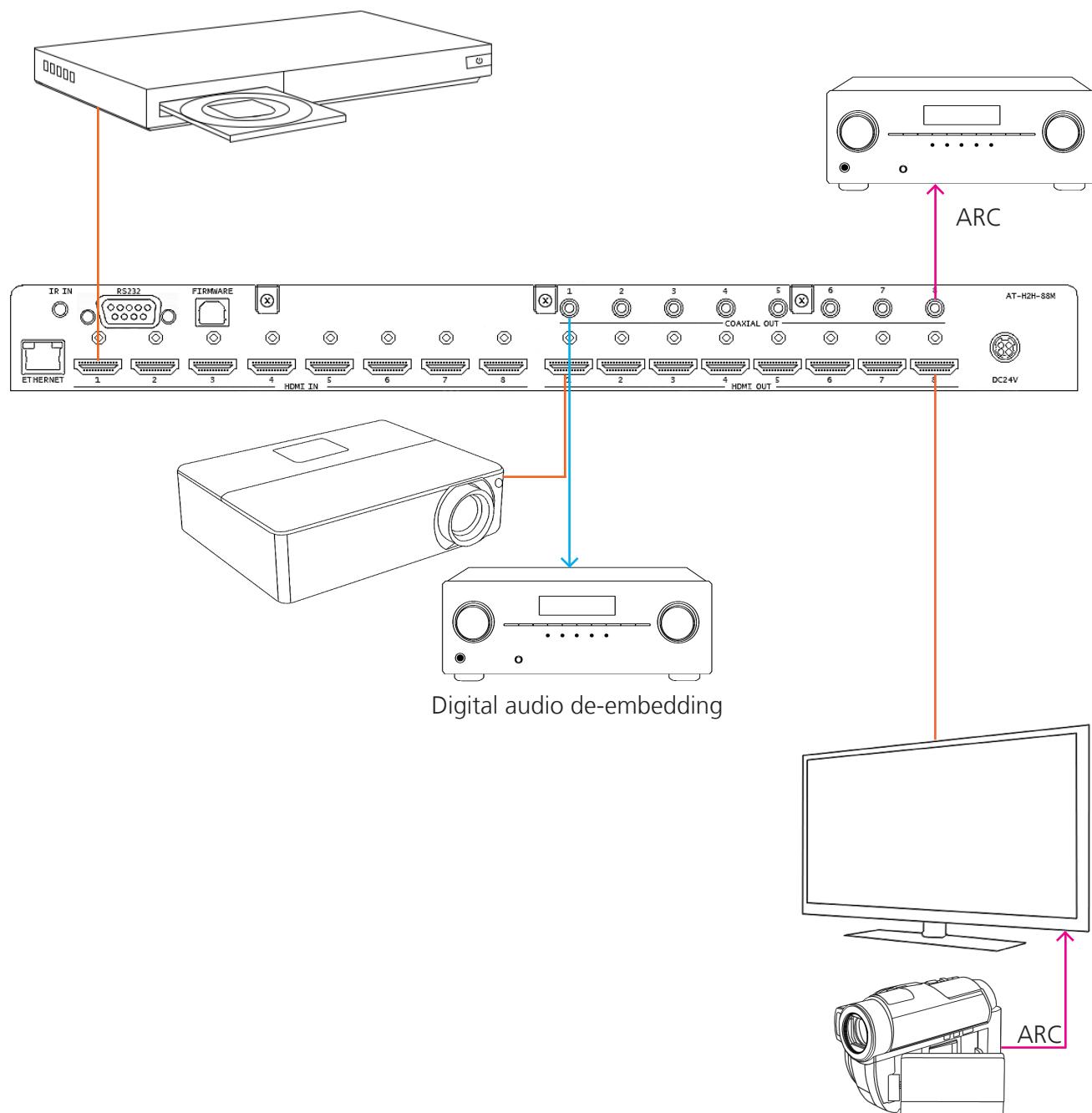
Back Panel



1. Matrix IR IN: Connect included IR receiver (see picture below)
2. RS-232: Connect to this port for control from a computer or 3rd control box.
3. Firmware Update: Type B USB Port used for updating the matrix firmware only
4. Coax Out: Audio de-embedding for distribution amplifiers and AVRs
Compatible with PCM 2Channel, LPCM 5.1, Dolby 2.0, Dolby Digital 5.1, and DTS 5.1
5. Ethernet Port: Used for TCP/IP control
6. HDMI Input Ports: Connect HDMI sources into these ports, such as DVD players, Blu-ray players, computers, etc.
7. HDMI out port: Connect to a display or an AVR
8. Power Port: Use included locking DC adaptor to power the matrix switcher



Connection Diagram



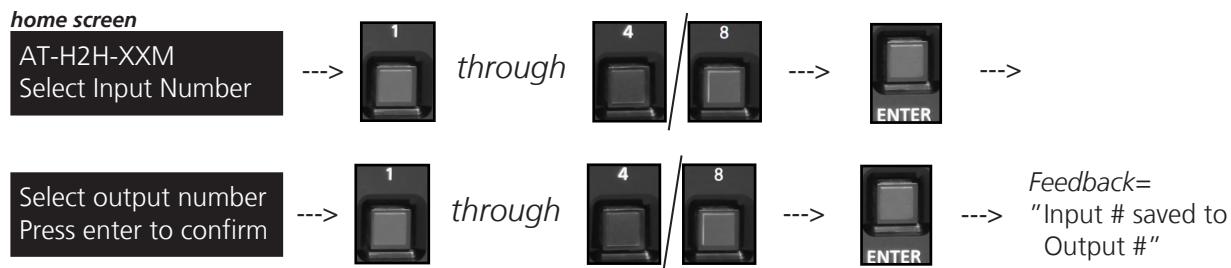
Matrix Front Panel Functions

The AT-H2H's front panel has 3 functions: I/O control, EDID, and matrix settings. The following sections go over step by step setup & control.

I/O Control

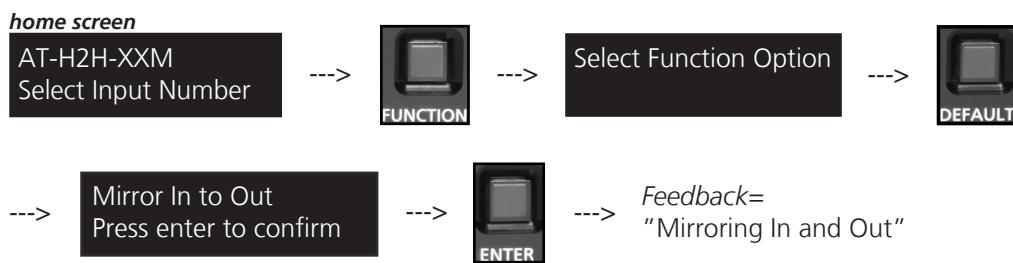
To **set** an input to an output

(I.E. Input 1 to output 2)



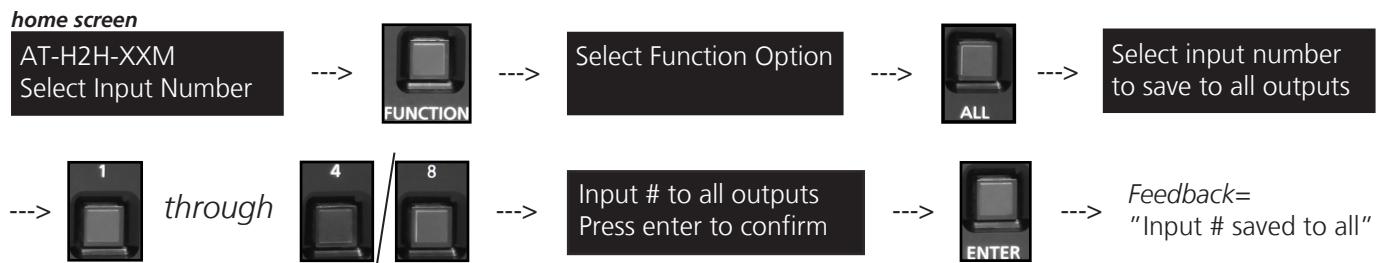
To **mirror** all inputs and outputs -- Ex. Input 1 to output 1, input 2 to output 2, etc.

(I.E. Input 1 to output 1, input 2 to output 2, etc.)



To **route** one input to all outputs -- Ex. Input 5 to output 1, output 2, etc.

(I.E. Input 1 to output 1, 2, 3, and 4)



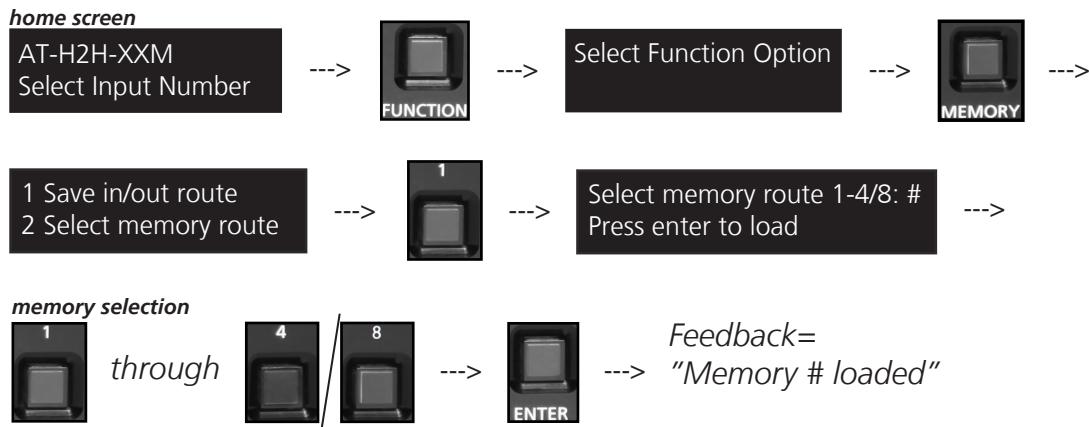
I/O Route Memory

Once inputs and outputs have been set they can be saved to memory and recalled later. Multiple individual input/output routes can be saved. The route will remain in memory until a new route has been saved to that memory number or the matrix has been factory reset.

To **save** an I/O route to memory

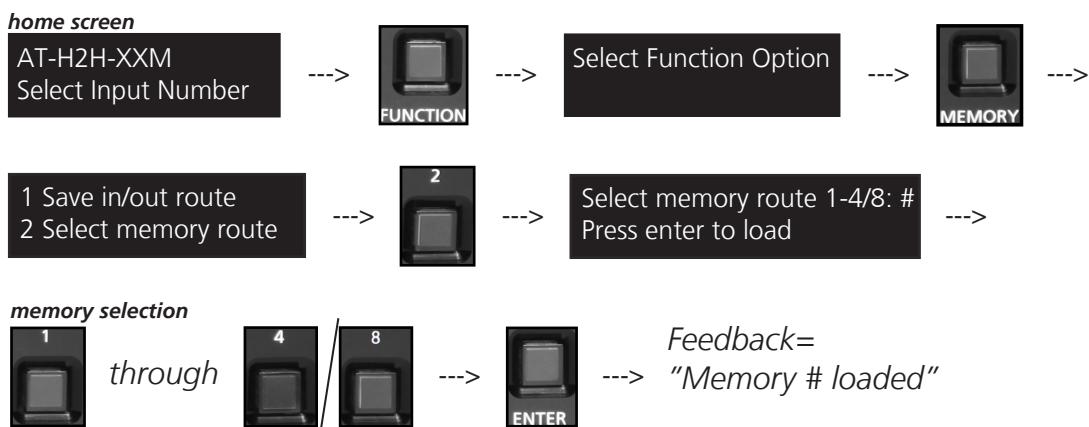
example route

O: 1 2 3 4
I: 4 2 1 3



To **load** a saved I/O route

Once an input/output route has been saved, it can be loaded at any time.



EDID Set Up

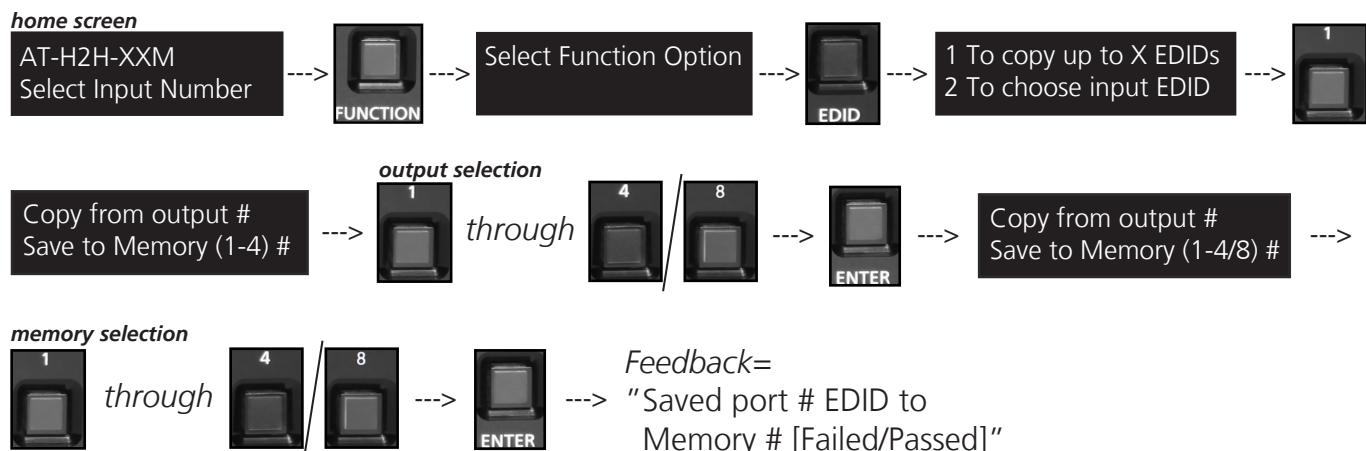
When the matrix is completely connected and turned on it will load the **default EDID**, which is the highest common native resolution of the connected devices. (i.e. *In the diagram below the default would be 720p with 2ch audio. Multi-channel audio and 3D are not enabled on internal mode, unless all devices have these features.*)



On default, all devices in the diagram will work at 720p. If a device is not syncing or a different resolution is required, internal EDID or EDID copy and load should resolve these issues. The AT-H2H can copy multiple EDIDs to memory.

To copy an EDID

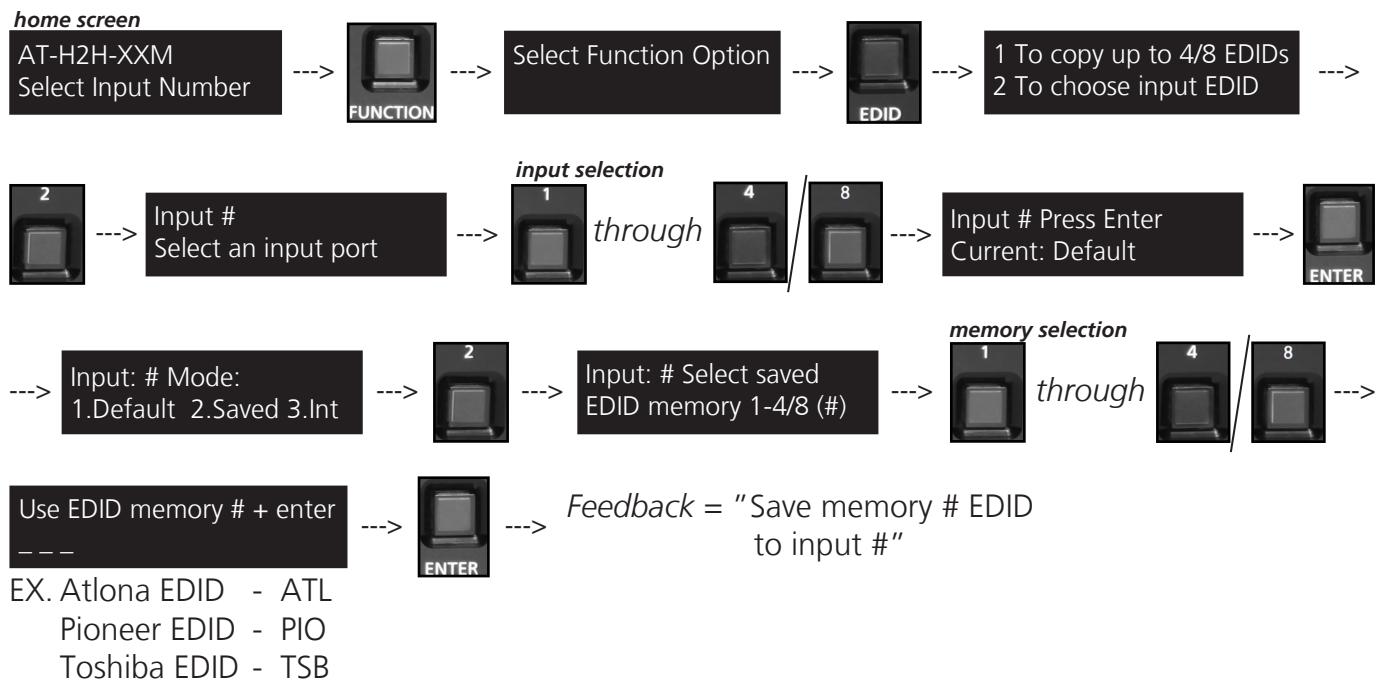
Before an EDID can be loaded to an input, it must first be copied to the matrix's memory. Each display's EDID can be saved individually to one of the matrix's EDID memories.



Step 2: load a copied EDID onto an input

Once EDIDs have been copied to memory they can be loaded to a specific input.

Note: (refer to the diagram on page 9) Using the EDID of output 3 with input 1 will enable 1080p, 3D, and Dolby TrueHD to pass. Output 2 will receive no audio or video and output 1 will receive no audio with these settings.



Step 3: Load an internal EDID to an input

If the first two steps don't produce the correct resolution or audio configuration, the twelve internal EDIDs should resolve the issue.

Internal EDID options

- EDID 1: 1080P 2CH audio
- EDID 2: 1080P multichannel audio*
- EDID 3: 1080P Dolby Digital 5.1**
- EDID 4: 1080P 3D 2CH audio
- EDID 5: 1080P 3D multichannel audio*
- EDID 6: 1080P 3D Dolby Digital 5.1**
- EDID 7: 720P 2CH audio
- EDID 8: 720P Dolby Digital 5.1**
- EDID 9: 1280x800 RGB 2CH audio
- EDID 10: 1366x768 RGB 2CH audio
- EDID 11: 1080P DVI***
- EDID 12: 1280x800 DVI***

Front panel display readout

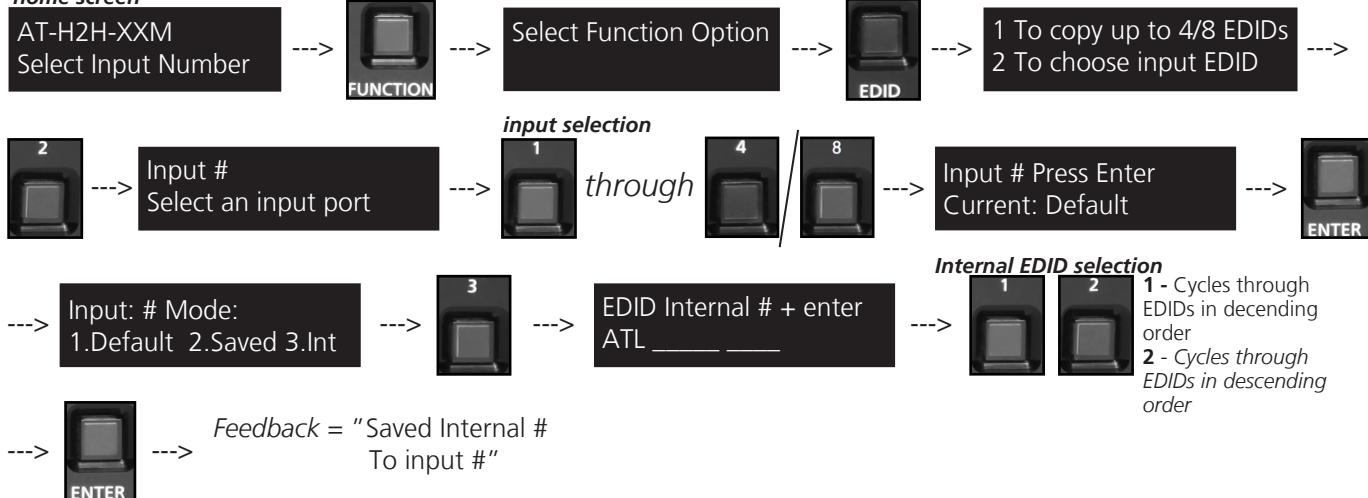
- ATL 1080P 2CH
- ATL 1080P Multi CH
- ATL 1080P DD
- ATL 1080P 3D 2CH
- ATL 1080P 3D Multi CH
- ATL 1080P 3D DD
- ATL 720P 2CH
- ATL 720P DD
- ATL 1280x800 RGB 2CH
- ATL 1366x768 RGB 2CH
- ATL 1080P DVI
- ATL 1280x800 RGB DVI

* Recommended EDID for use of an AVR

** Recommended EDID for use of the S/PDIF audio de-embedding

*** Recommended EDID for use of DVI projectors

home screen



RS-232 commands:

To access the different EDIDs through RS-232 the following commands must be used.

Command	Feedback	Description
EDIDMsetX default	EDIDMsetX default	Sets the EDID of an input to the default EDID Ex. EDIDMset2 default - sets input 2 to default
EDIDMsetX saveY	EDIDMsetX saveY	Sets the EDID of an input to the previously saved EDID memory Ex. EDIDMset1 save3 - sets input 1 to the EDID memory 3
EDIDMsetX intZ	EDIDMsetX intZ	Sets the EDID of an input to one of the internal EDIDs Ex. EDIDMset3 int6 - sets input 3 to the internal EDID - 1080p 3D Dolby Digital 5.1

Matrix Settings

When installing or troubleshooting it's important to verify settings, or be able to come back to a project and see how it was set up. The AT-H2H has matrix settings viewable through the front panel. View current I/O settings, firmware version, FPGA version, and the baud rate of the matrix.

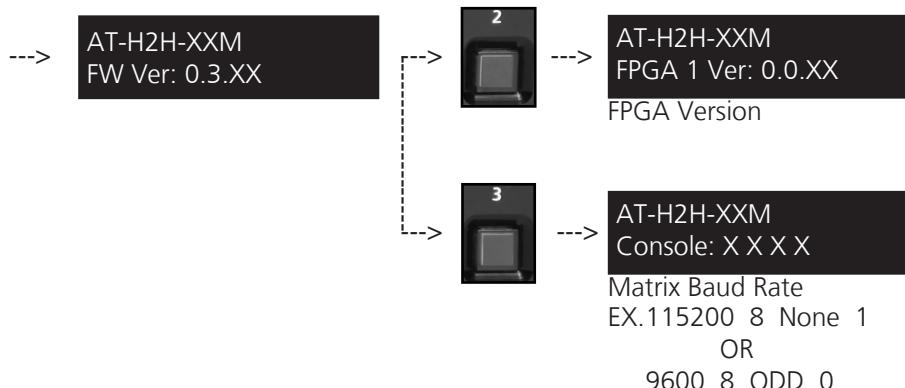
View I/O settings

home screen



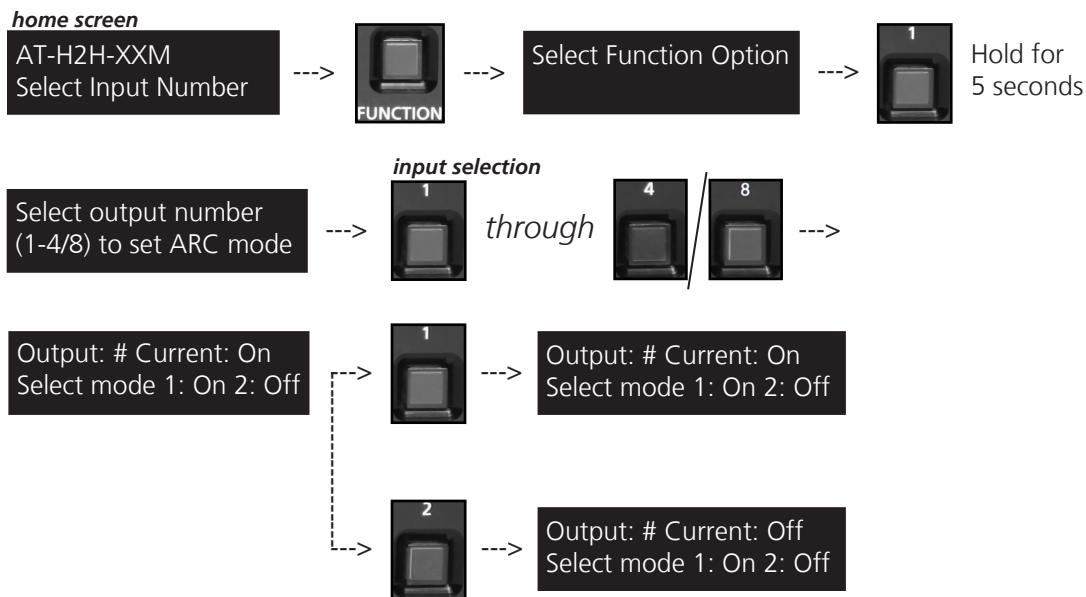
View Firmware/Baud Rate/FPGA settings

home screen



S/PDIF

The S/PDIF port is used for two audio options, ARC or matrix source audio de-embedding. When using one, the other is disabled. By default the matrix comes with ARC turned off on all ports, this enables the S/PDIF to de-embed audio from the matrix source. To switch between ARC and matrix source audio, ARC must be turned on or off. Enable or disable ARC through RS-232 (see page 18) or front panel (see below).



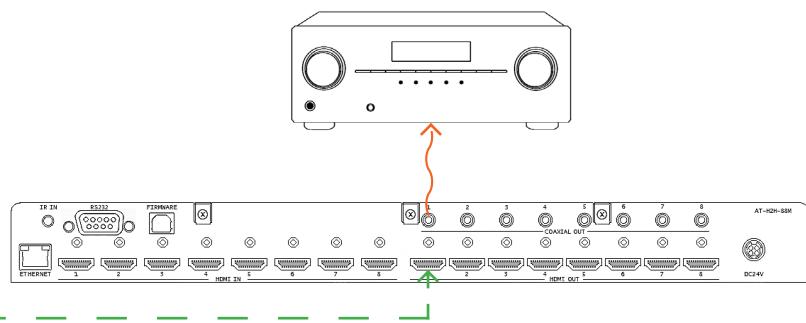
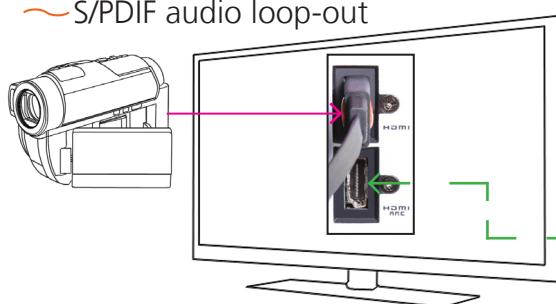
Audio Return Channel (ARC)

ARC enables a source connected to a display to route audio to an AVR or zone amp.

Steps

1. Check to be sure the display supports ARC
2. Enable ARC on the HDMI output of the matrix through RS-232 (see page 18) or front panel (see steps above)
3. Connect the HDMI Matrix output port to the ARC labeled input port on the display
NOTE: The Matrix must be connected to the display's HDMI ARC input
4. Connect the source to a non ARC HDMI input port on the display
5. Connect the S/PDIF port to an AVR or Zone Amp
NOTE: The S/PDIF port used must be the same output number as the HDMI port connected to the display

- HDMI
- - Bidirectional HDMI w/ARC signal
- S/PDIF audio loop-out



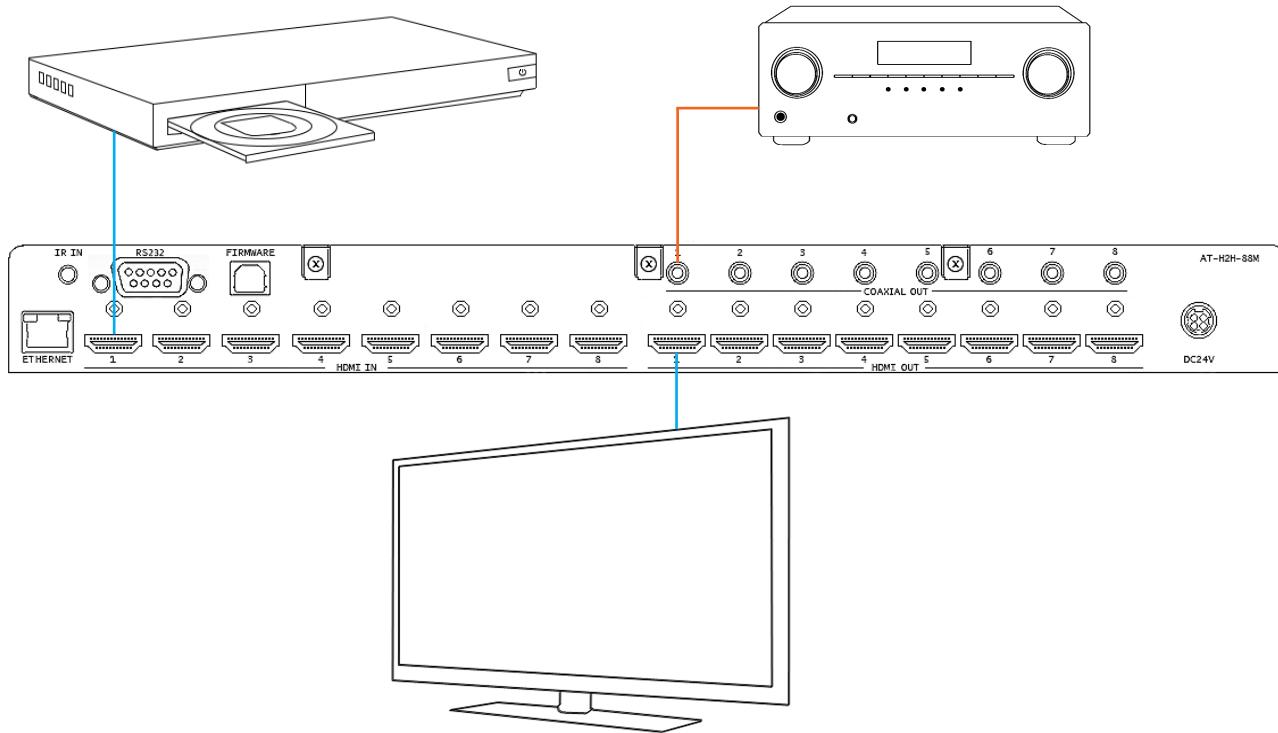
Matrix source audio loop-out

By default the matrix is enabled to de-embed source audio out through the S/PDIF port to an AVR or zone amp.

NOTE: If audio does not pass through, check to make sure ARC is turned off.

NOTE: HD audio formats are not supported through S/PDIF.

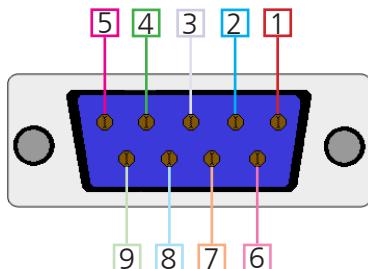
Ex. Dolby TrueHD or DTS-HD Master Audio



RS-232

Connection

RS-232 is connected through a 9-pin female DB connector. Only pins 2, 3, and 5 are terminated.



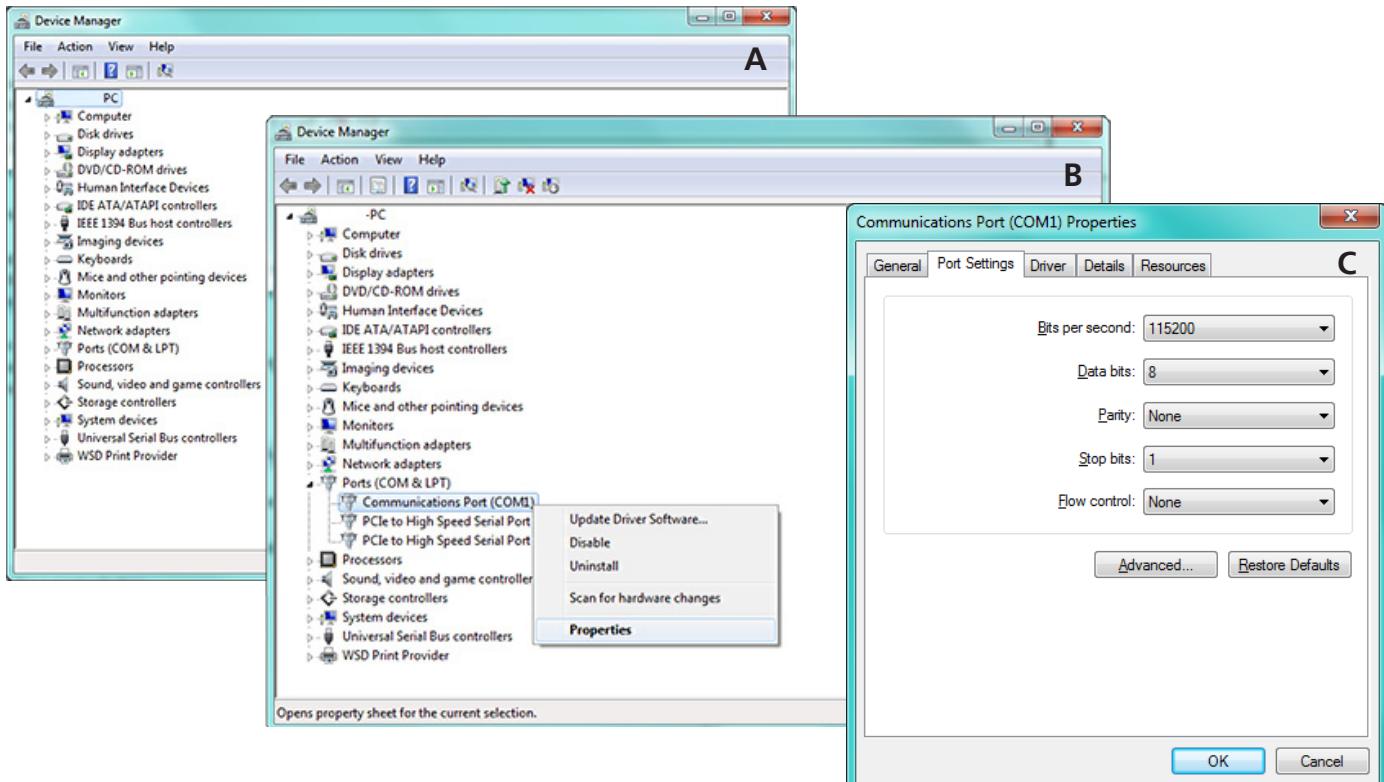
No.	Pin	Function
1	----	Not used
2	Tx	Transmit
3	Rx	Receive
4	----	Not used
5	Gnd	Ground
6	----	Not used
7	----	Not used
8	----	Not used
9	----	Not used

Set Up

To set up the RS-232 hyperterminal (if not using 3rd party software) use the following steps:

1. Connect the matrix to a PC using a 9pin to 9pin cable
2. Go to the Device manager folder (see picture A)
3. Find the Matrix COM port and right click with a mouse and select properties (see picture B)
NOTE: If unsure which COM port is the matrix, unplug the 9pin cable and plug it back in. It will disappear and reappear on the COM port list.
4. Under the properties menu select the port settings tab and update the menu to the **matrix default settings of**: Bits Per Second: 115200, Data Bits: 8, Parity: None, Stop Bits: 1 and Flow Control: None. (see picture C)

Set up is done and any hyperterminal program may be used to control the matrix now.



TCP/IP

Warning!: Do not connect the matrix Ethernet port until the first steps have been followed.

BEFORE YOU PLUG IN ANYTHING: Verify no other devices on the network have the IP of 192.168.1.10 (the matrix default is 192.168.1.10).

There are two ways to set TCP/IP control when any of the products on the network have the same IP address as the matrix: RS-232 or through Ethernet on a non networked computer.

RS-232 TCP/IP Set up (Preferred)

Step 1: Follow RS-232 set up instructions on page 15

Step 2: Open Hyperterminal program

Step 3: Verify DHCP is off

Send command "IPDHCPsta" followed by a carriage return

Feedback should be "DHCPOff"

If DHCP is on use command "IPDHCPoff" to turn DHCP off

Step 4: Change the current IP using the command "IPStatic 192.168.0.**200** 255.255.255.0"

IP can be anything that system devices aren't currently using. (200 is just an example)

Step 5: (optional) Change the port using the command "IPPort 4400" followed by a carriage return
4400 is just an example. The port can be changed to what is needed/wanted

The matrix is now ready to be used for TCP/IP control. The Ethernet cable may be connected now.

Note: If IPLogin is turned on, default TCP/IP log in is ~ username- **root** password- **Atlona**

Ethernet TCP/IP Set up (If RS-232 is not available)

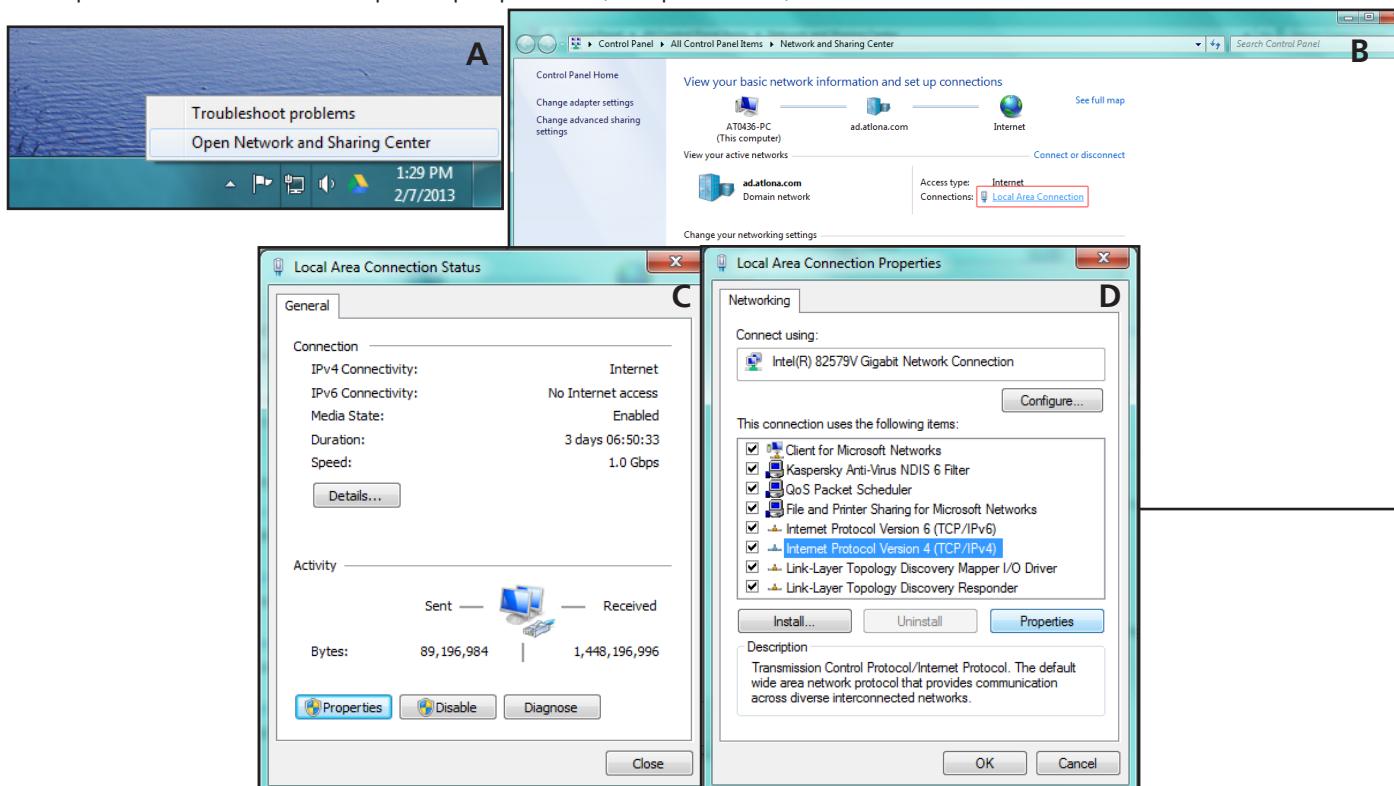
Step 1: Connect Ethernet to a computer

Step 2: Right click the network icon at the bottom right side of screen and open network and sharing center on PC (see picture A)

Step 3: Select internet type connection/local area connection (see picture B)

Step 4: Select properties (see picture C)

Step 4: Select IP V.4 and press properties (see picture D)



Step 5: Change IP to 192.168.1.2 and Subnet: 255.255.255.0 (see picture E)

Step 6: Press apply

Step 7: Close internet type connection and launch IP software

Log in:

Host: 192.168.1.10 (matrix IP)

Port: 23 (matrix port)

Step 8: Verify DHCP is off

Send command "IPDHCPsta" followed by a carriage return -- Feedback should be "DHCPoff"

If DHCP is on use command "IPDHCPoff" to turn it off

Step 9: Change the current IP using the command

"IPStatic 192.168.0.**200** 255.255.255.0"

IP can be anything the system devices aren't currently using. (200 is just an example)

* This will cause the IP software to close *

Step 10: Go back to your network settings and return

the IP V.4 to the original settings ----->

Step 11: Reopen the IP software

Log in:

Host: 192.168.0.200 (new matrix IP)

Port: 23 (matrix port)

Step 10: (optional) Change the port using the command "IPPort 4400" + carriage return
4400 is just an example. The port can be changed to what is needed/wanted

This will cause the IP software to close

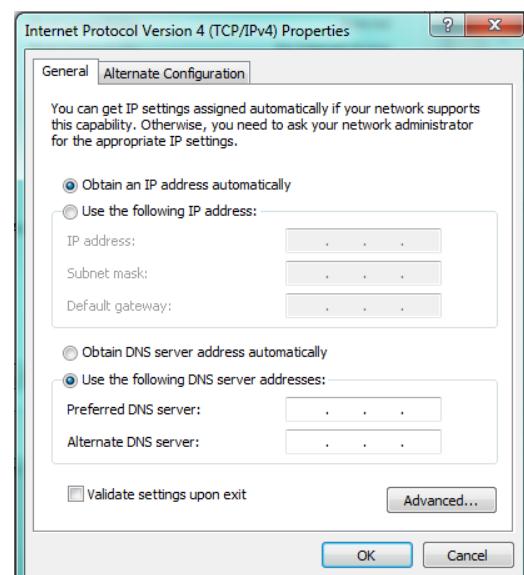
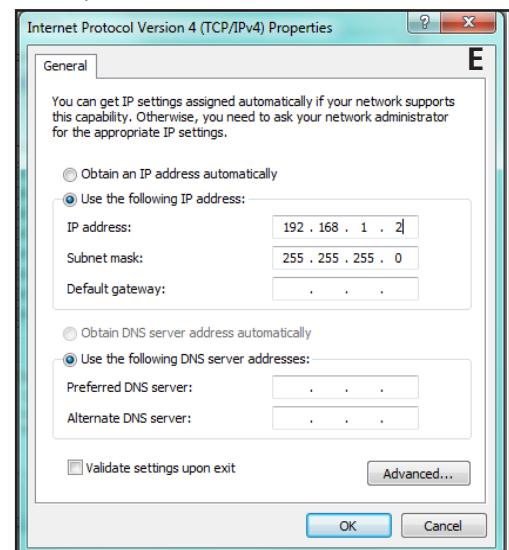
Step 11: Relog into IP software

Log in:

Host: 192.168.0.200 (new matrix IP)

Port: 4400 (new matrix port)

The matrix is now ready to be used for TCP/IP control.



Commands

The command codes are case sensitive, do not change capitalization, spacing, or lettering.

Command	Feedback	Description
PWON	PWON	Power on
PWOFF	PWOFF	Power off
PWSTA	PWx	Will display the power status of the matrix (ex. Power is on = PWON)
Version	(Firmware #)	Brings up the current firmware version
Lock	Lock	Locks the front panel of the matrix so no buttons are active
Unlock	Unlock	Unlocks the front panel of the matrix, enabling the buttons again
All#	x1AVx1,x2AVx2,...	Resets all inputs to corresponding outputs (in3 to out3)
x1\$	x1\$	Turns off output channel (to turn off output 3 = x3\$)
x1AVx2	x1AVx2	Switch input to output (input 3 to output 2 = x3AVx2)
x1AVx2,x3,x4	x1AVx2,x3,x4	Switch input to multiple outputs (input 3 = x3AVx1,x2)
IRON	IRON	Turns on the IR receiver
IROFF	IROFF	Turns off the IR receiver

Command	Feedback	Description	
ARConY	ARConY	Enable ARC on an Output. Ex. Output 2 = ARCon2	
ARCoffY	ARCoffY	Disable ARC on an Output. Ex. Output 4 = ARCoff4	
ARCsta	ARCon1,ARCon2,etc	Displays all ARC output status	
Statusx1	x7AVx1	Shows what input is connected to selected output	
Status	x1AVx1,x2AVx2, x3AVx4,	Displays which inputs are currently connected to which outputs	
SaveY (ex. Save2)	SaveY (ex. Save2)	Saves settings for future use, preset options 0 to 4	
RecallY (ex. Recall2)	RecallY (ex. Recall2)	Recalls saved settings for the number you selected	
ClearY (ex. Clear2)	ClearY (ex. Clear2)	Erases the save for the number you selected	
Mreset	Mreset	Sets matrix back to the default settings	
RS232zoneX[command]	RS232zoneX[command]	Send commands to devices connected to the receiver RS-232 ports. Commands are the same as the ones stated in this table. X = zone number ex: RS232zone1[PWON] ex: RS232zone1[PWON]	example: Turning the power on for the device connected in zone 1

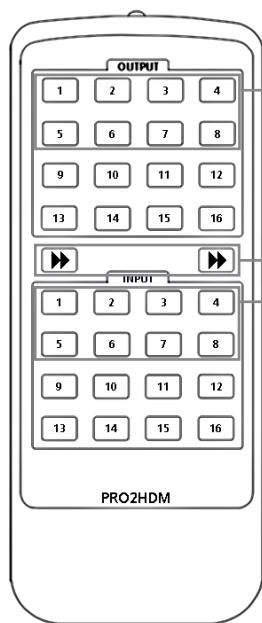
Each command or feedback is terminated with a carriage return.

Note: If the command fails or is incorrect the feedback should be "Command FAILED"

TCP/IP Commands

Command	Feedback	Description
IPCFG	IP Addr : x.x.x.x Netmask : x.x.x.x Gateway : x.x.x.x IP Port: x.x.x	Displays IP address configuration
IPTimeout XX	IPTimeout XX (Ex. IPTimout120)	Determines amount of seconds of inactivity before TCP/IP disconnects
IPQuit	IPQuit	Logs out of TCP/IP
IPAddUser	TCP/IP username & password list: - user password - user password - user password	Will display a list of users
IPAddUser [X] [Y]	TCP/IP user was added	Add a user for TCP/IP control. X=User Y=Password Ex. IPAddUser Atlona 1234 (User=Atlona 1234=Password)
IPDelUser [X]	TCP/IP user was deleted	Delete a user from TCP/IP X=User (Ex. IPDelUser Atlona)
IPDHCP sta	IPDHCP sta Ex. IPDHCP on	Displays the status of DHCP
IPDHCP on	IPDHCP on	Turns DHCP on
IPDHCP off	IPDHCP off	Turns DHCP off
IPStatic [X] [Y] [Z]	IPStatic address netmask gateway	Sets a static IP address Ex. IPStatic 192.168.1.1 255.255.255.0 192.168.1.200
IPPort	IPPort Y	Set the TCP/IP port (ex. IPPort 230)
IPLogin sta	IPLogin sta Ex. IPLogin on	Displays IPLogin status
IPLogin on	IPLogin on	Enables IPLogin
IPLogin off	IPLogin off	Disables IPLogin
Broadcast sta	Broadcast sta	Displays broadcast mode status
Broadcast on	Broadcast on	Enables broadcast mode
Broadcast off	Broadcast off	Disables broadcast mode

Remote Control



Output selection. Numbers correspond with the HDMI outputs on the matrix.

Arrow buttons are not functional for this product.

Input selection. Numbers correspond with the HDMI inputs on the matrix.

Updating and Resetting

Updating firmware

Atlona has made field firmware updating easy. Simply download firmware from Atlona.com and upload the file to the matrix.

NOTE: Only use a Windows computer to update the matrix. Use of an Apple computer to update will cause the matrix to be unusable until the update is redone with a Windows computer.

Needs:

- Verify the current firmware version
- RS-232 9 Pin to 9 Pin cable.
- PC (not compatible with MAC)
- OS that supports USB mass storage devices
- USB A to USB B cable (i.e. AT11008)

To **view** the current firmware use RS-232 command “**Version**” or front panel (see page 12).

Preparing the Matrix:

- Unplug the power cable.
- Hold the Cancel button while plugging the power back in.
- Connect the USB B to USB A cable into the Matrix and the Computer.

Updating the Matrix:

The computer should auto detect the connection, if it does not, open the USB device from “my computer”.

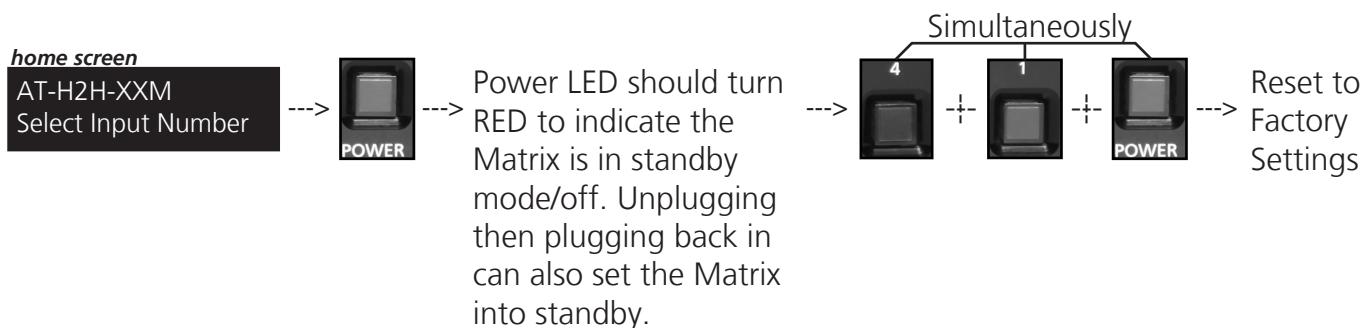
- Click open in a new folder. (if auto run detects connection)
- Delete the file in the folder. (there should be only one file, if more, delete all files)
- Copy and Paste the new firmware file into the USB folder.
- Unhook the Matrix from the computer.
- Unplug the power cable from the AT-H2H
- Plug the power back in and start the matrix normally. Your update should be complete

If you wish to verify the new firmware, use the RS-232 command “**Version**”.

Resetting to factory settings

Atlona understands that settings can be troublesome and at times its just easier to set things back to factory settings. To make things easier a simple one step reset was created.

To reset the matrix, hold down the buttons 1 and 4 while powering on. If successful the matrix will be back to factory settings when it turns on.



Specifications

Bandwidth	6.75Gbps	
Ports	AT-H2H-44M	AT-H2H-88M
Video input	4 x HDMI	8 x HDMI
Video output	4 x HDMI	8 x HDMI
Audio output	4 x S/PDIF	8 x S/PDIF
IR input	1 x 3.5 mm	1 x 3.5 mm
Control: RS-232	1 x 9pin (RS-232)	1 x 9pin (RS-232)
Control: TCP/IP	1 x RJ45	1 x RJ45
Firmware update	1 x USB B	1 x USB B
Power Consumption	20.6W	
Audio	Passes up to Dolby TrueHD or DTS-HD Master Audio	
Resolution	Video: up to 1080p@60Hz VESA: up to 1920x1200	
Dimensions	1.74 x 17.25 x 10 (inch) 44.2 x 438 x 254 (mm)	
Weight	6.45 lbs 2.93 kg	
Rack Size	1 U, 19 in. standard electronics rack	
Temperature	Operating: 32°F to 104°F (0°C to 40°C) Storage: 4°F to 140°F (20°C to 60°C)	
Certifications	CE, FCC, RoHS, cULus for power supplies	

Safety Information

Safeguards



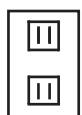
To reduce the risk of electric shock, do not expose this product to rain or moisture



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



Do not modify the wall plug. Doing so will void the warranty and safety features.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-H2H-XXM. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

Warranty

Limited Warranty

Atlona Technologies warrants that (a) its products (AT-H2H-XXM) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss. Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.



Atlona Product Registration

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: <http://www.atlona.com/registration>